

Appl. No. : Unknown  
Filed : Herewith

### AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A ~~[[P]]~~pumping apparatus ~~(1)~~ with a peristaltic drive device ~~(3)~~ for pumping a medium through a line ~~(4)~~ having at least one compressible portion, containing a one-piece shaft ~~(10)~~ with cams arranged so as to be offset with respect to one another and with attached lamellae ~~(14)~~, positive guidance for the lamellae ~~(14)~~ being provided, ~~characterized in that wherein~~ the cams are cam segments ~~(13)~~, the shaft ~~(10)~~ is essentially without a core shaft and essentially without a continuous core region, and the ratio between the lamella height (c) and lamella stroke (h) is about 4:1 or less.

2. (Currently amended) The ~~[[P]]~~pumping apparatus ~~(1)~~ according to Claim 1, ~~characterized in that wherein~~ the shaft ~~(10)~~ has a thin continuous core region ~~(22)~~, in particular a continuous core region ~~(22)~~ with a diameter of below 3 mm.

3. (Currently amended) The ~~[[P]]~~pumping apparatus ~~(1)~~ according to ~~one of the preceding claims~~ Claim 1, ~~characterized in that additionally comprising~~ a counterpressure plate ~~(18)~~ for applying the line, in particular a hose ~~(4)~~, and for supporting the pressure exerted on the line or the hose ~~(4)~~ by the lamellae ~~(14)~~.

4. (Currently amended) The ~~[[P]]~~pumping apparatus ~~(1)~~ according to Claim 3, ~~characterized in that wherein~~ the counterpressure plate ~~(18)~~ is sprung within a housing of the pumping apparatus ~~(1)~~ by ~~means of one or more springs (19, 23, 26), in particular by means of barrel springs (23), leaf springs (26) or another type of spring.~~

5. (Currently amended) A ~~[[S]]~~shaft ~~(10)~~ for a pumping apparatus ~~(1)~~ with a peristaltic drive device ~~(3)~~ ~~according to one of the preceding claims~~, the shaft being formed in one piece, ~~characterized in that wherein~~ the shaft ~~(10)~~ is designed without a core shaft and essentially without a continuous core region or, for an increase in stability, with ~~the~~ a thin continuous core region with a diameter of below 3 mm and having cam segments ~~(13)~~ offset with respect to one another and contiguous to one another.

6. (Currently amended) The ~~[[S]]~~shaft ~~(10)~~ according to Claim 5, ~~characterized in that wherein~~ an odd or even number of cam segments ~~(13)~~ is provided.

7. (Currently amended) The ~~[[S]]~~shaft ~~(10)~~ according to Claim 5 ~~to 6~~, ~~characterized in that wherein~~ the cam segments ~~(13)~~ are offset with respect to one another in such a way that

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only one cam segment is at a maximum distance from an imaginary center line (21) of the shaft (10).

8. (Currently amended) ~~The [[S]]shaft (10) according to Claim 7, characterized in that wherein~~ a uniform offset ( $\alpha$ ) of the cam segments (13) is provided, ~~in particular an offset of 40° in the case of nine cam segments (13).~~

9. (Currently amended) ~~The [[S]]shaft (10) according to one of Claims Claim 5 to 8, characterized in that wherein~~ the shaft (10) ~~consists of~~ comprises a plastic, in particular of a carbon fibre plastic, of a glass-fibre-reinforced polymer or of another stable and dimensionally consistent material.

10. (Currently amended) ~~Use of [[t]]The pumping apparatus (1) according to one of Claim[[s]] 1 to 4,~~ wherein said line and drive device are configured as an infusion pump or transfusion pump, for dialysis or as a hose pump for other medical purposes.